

Jan Delaval please

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SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: SABHA QAZI (STIC) Examiner #: 74141 Date: 9/4/02
Art Unit: 1616 Phone Number 305-3910 Serial Number: 09/857,067
Mail Box and Bldg/Room Location: 2D19 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need. ME

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: 3-heterocyclyl substituted benzopyrazol
Inventors (please provide full names): ULF NEIDLEIN et al.

Earliest Priority Filing Date: 8/6/1998 371 of PCT/EP99/07413

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

- 1) Please search for the 3-(heterocyclyl-) substituted benzopyrazole of formula 1 of cl. 1.
- 2) Elected sp. is compd 2.2 in Table 2.
- Please see attached sheets

Thank you

Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
CM1 1E07 - 78-308-4498
jan.delaval@spto.gov

STAFF USE ONLY

Searcher: Jan
Searcher Phone #: 4499
Searcher Location: _____
Date Searcher Picked Up: 9/11/02
Date Completed: 9/11/02
Searcher Prep & Review Time: _____
Clerical Prep Time: 15
Online Time: 75

Type of Search

NA Sequence (#) _____
AA Sequence (#) _____
Structure (#) ✓
Bibliographic _____
Litigation _____
Fulltext _____
Patent Family _____
Other _____

Vendors and csa where applicable

STN ✓
Dialog _____
Questel/Orbit _____
Dr. Link _____
Lexis/Nexis _____
Sequence Systems _____
WWW/Internet _____
Other (specify) _____

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FILE 'REGISTRY' ENTERED AT 08:32:08 ON 11 SEP 2002

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STRUCTURE FILE UPDATES: 9 SEP 2002 HIGHEST RN 448894-79-9

DICTIONARY FILE UPDATES: 9 SEP 2002 HIGHEST RN 448894-79-9

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

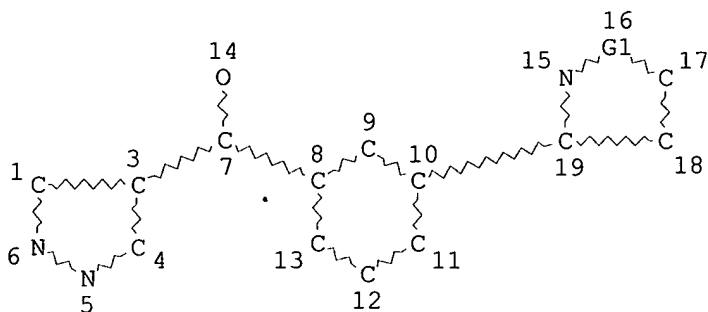
Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> d sta que 17

L3 STR



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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 15 10 3

NUMBER OF NODES IS 18

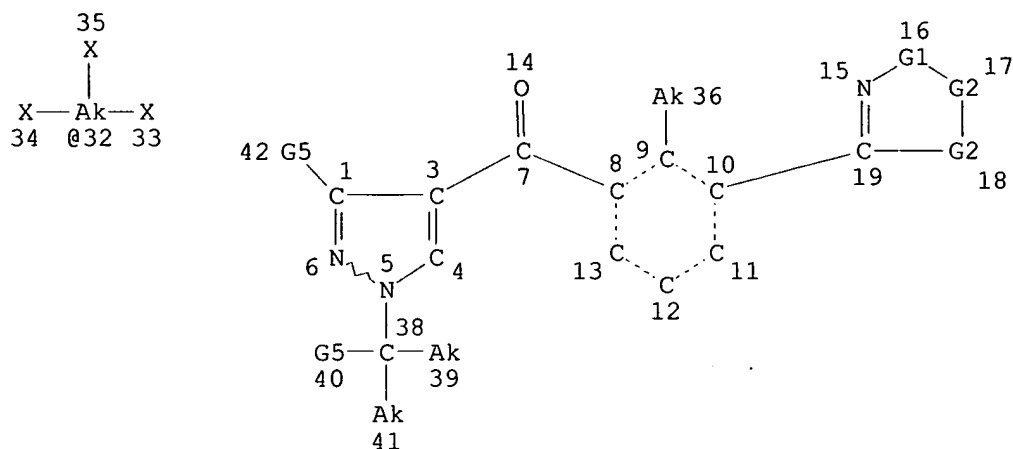
STEREO ATTRIBUTES: NONE

L4 322 SEA FILE=REGISTRY SSS FUL L3

L5 STR

Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
CM1 1E07 - 703-308-4498
jan.delaval@uspto.gov

N—Ak .C—G3 G3—C—G3 Ak—X X—Ak—X
 @20 21 @22 23 26 @24 25 @27 28 31 @29 30



VAR G1=O/N/20
 VAR G2=C/22/24
 VAR G3=AK/27/29/32
 VAR G5=H/AK

NODE ATTRIBUTES:

CONNECT IS M1 RC AT 4
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 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

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STEREO ATTRIBUTES: NONE

L7 22 SEA FILE=REGISTRY SUB=L4 CSS FUL L5

100.0% PROCESSED 318 ITERATIONS
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22 ANSWERS

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FILE 'HCAPLUS' ENTERED AT 08:29:20 ON 11 SEP 2002

L9 2 S L7
 SEL RN

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L10 42 S E1-E42
 L11 22 S L10 AND L4
 L12 20 S L10 NOT L11

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L13 . 0 S L7

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RN 273927-67-6 REGISTRY

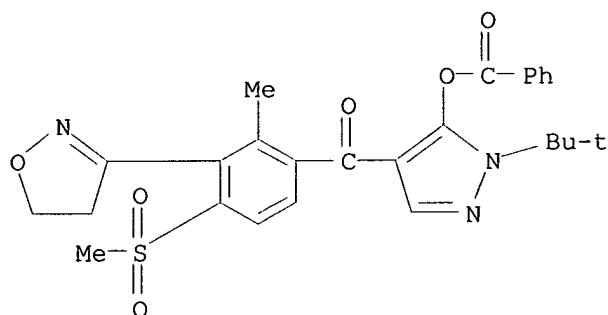
CN Methanone, [5-(benzoyloxy)-1-(1,1-dimethylethyl)-1H-pyrazol-4-yl][3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C26 H27 N3 O6 S

SR CA

LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:30727

L7 ANSWER 2 OF 22 REGISTRY COPYRIGHT 2002 ACS

RN 273927-66-5 REGISTRY

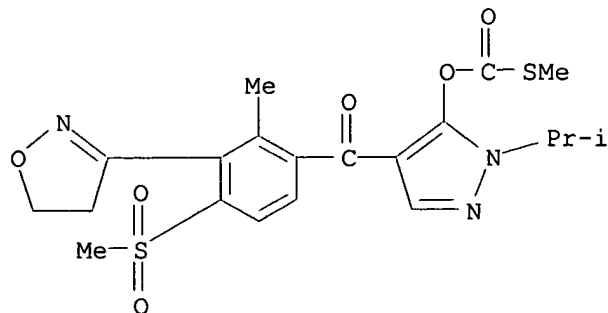
CN Carbonothioic acid, O-[4-[3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)benzoyl]-1-(1-methylethyl)-1H-pyrazol-5-yl] S-methyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C20 H23 N3 O6 S2

SR CA

LC STN Files: CA, CAPLUS

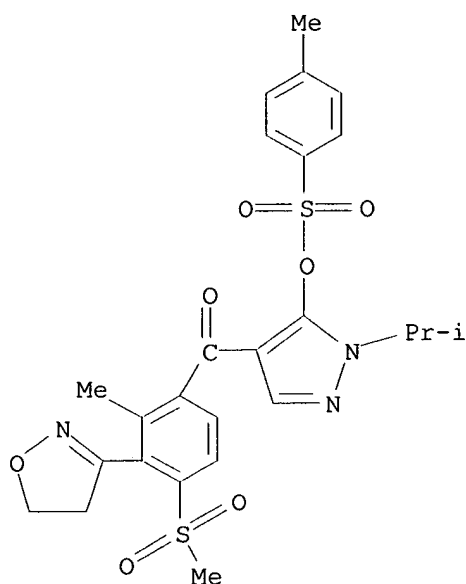


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1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:30727

L7 ANSWER 3 OF 22 REGISTRY COPYRIGHT 2002 ACS
RN 273927-65-4 REGISTRY
CN Methanone, [3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl][1-(1-methylethyl)-5-[[4-methylphenyl)sulfonyl]oxy]-1H-pyrazol-4-yl]- (9CI) (CA INDEX NAME)
MF C25 H27 N3 O7 S2
SR CA
LC STN Files: CA, CAPLUS

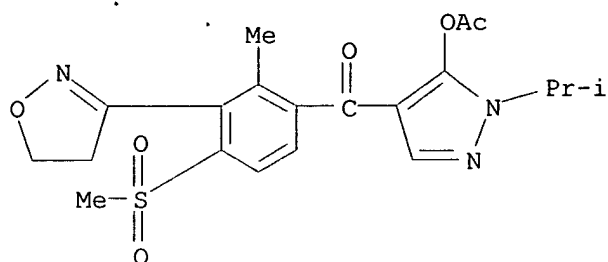


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1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:30727

L7 ANSWER 4 OF 22 REGISTRY COPYRIGHT 2002 ACS
RN 273927-64-3 REGISTRY
CN Methanone, [5-(acetyloxy)-1-(1-methylethyl)-1H-pyrazol-4-yl][3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)
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MF C20 H23 N3 O6 S
SR CA
LC STN Files: CA, CAPLUS

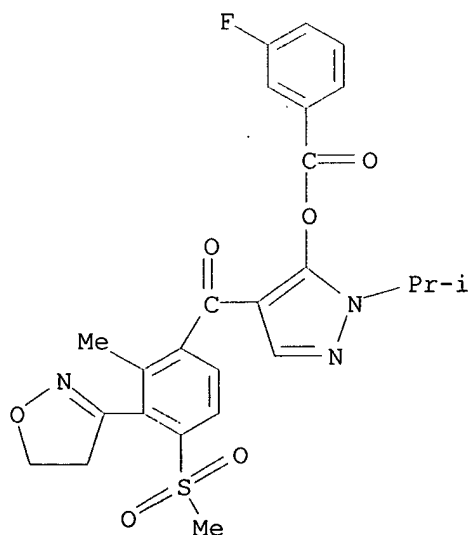


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1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:30727

L7 ANSWER 5 OF 22 REGISTRY COPYRIGHT 2002 ACS
RN 273927-63-2 REGISTRY
CN Benzoic acid, 3-fluoro-, 4-[3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)benzoyl]-1-(1-methylethyl)-1H-pyrazol-5-yl ester (9CI)
(CA INDEX NAME)
FS 3D CONCORD
MF C25 H24 F N3 O6 S
SR CA
LC STN Files: CA, CAPLUS



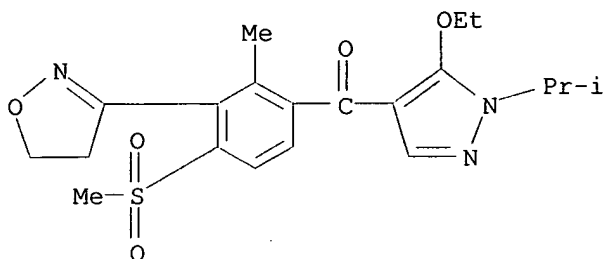
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1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:30727

L7 ANSWER 6 OF 22 REGISTRY COPYRIGHT 2002 ACS

RN 273927-62-1 REGISTRY
 CN Methanone, [3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl][5-ethoxy-1-(1-methylethyl)-1H-pyrazol-4-yl]- (9CI)
 (CA INDEX NAME)
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 SR CA
 LC STN Files: CA, CAPLUS

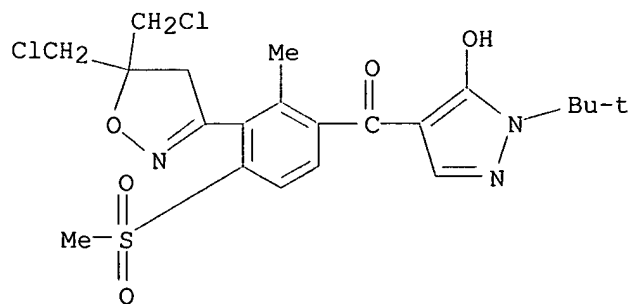


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 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:30727

L7 ANSWER 7 OF 22 REGISTRY COPYRIGHT 2002 ACS
 RN 273927-61-0 REGISTRY
 CN Methanone, [3-[5,5-bis(chloromethyl)-4,5-dihydro-3-isoxazolyl]-2-methyl-4-(methylsulfonyl)phenyl][1-(1,1-dimethylethyl)-5-hydroxy-1H-pyrazol-4-yl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C21 H25 Cl2 N3 O5 S
 SR CA
 LC STN Files: CA, CAPLUS



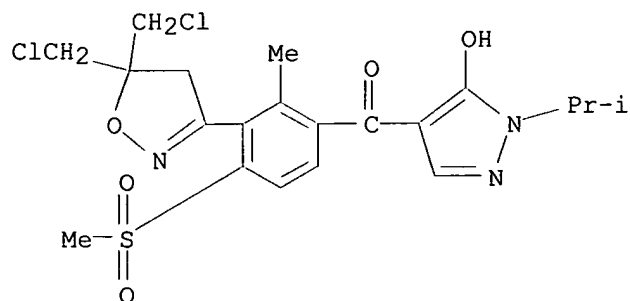
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 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:30727

L7 ANSWER 8 OF 22 REGISTRY COPYRIGHT 2002 ACS
 RN 273927-60-9 REGISTRY

CN Methanone, [3-[5,5-bis(chloromethyl)-4,5-dihydro-3-isoxazolyl]-2-methyl-4-(methylsulfonyl)phenyl][5-hydroxy-1-(1-methylethyl)-1H-pyrazol-4-yl]-(9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C20 H23 Cl2 N3 O5 S
 SR CA
 LC STN Files: CA, CAPLUS

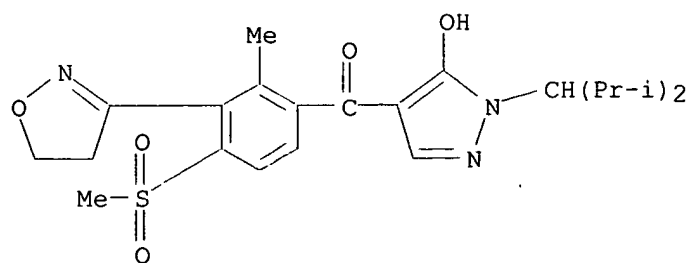


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 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:30727

L7 ANSWER 9 OF 22 REGISTRY COPYRIGHT 2002 ACS
 RN 273927-59-6 REGISTRY
 CN Methanone, [3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl][5-hydroxy-1-[2-methyl-1-(1-methylethyl)propyl]-1H-pyrazol-4-yl]-(9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C22 H29 N3 O5 S
 SR CA
 LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

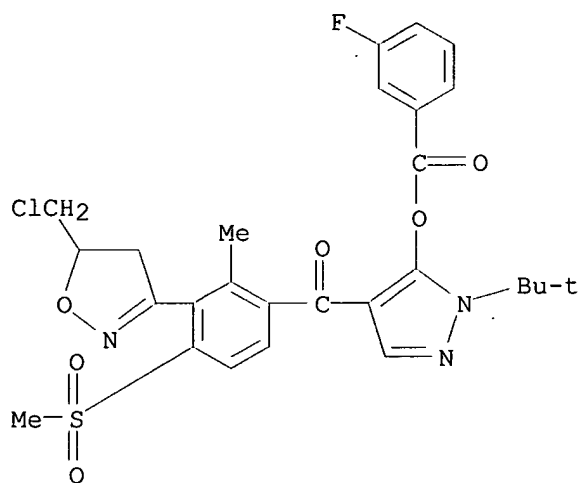
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REFERENCE 1: 133:30727

L7 ANSWER 10 OF 22 REGISTRY COPYRIGHT 2002 ACS
 RN 273927-58-5 REGISTRY
 CN Benzoic acid, 3-fluoro-, 4-[3-[5-(chloromethyl)-4,5-dihydro-3-isoxazolyl]-

2-methyl-4-(methylsulfonyl)benzoyl]-1-(1,1-dimethylethyl)-1H-pyrazol-5-yl
ester (9CI) (CA INDEX NAME)

FS 3D CONCORD
MF C27 H27 Cl F N3 O6 S
SR CA
LC STN Files: CA, CAPLUS

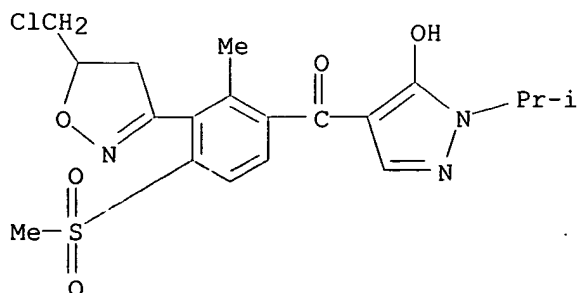


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REFERENCE 1: 133:30727

L7 ANSWER 11 OF 22 REGISTRY COPYRIGHT 2002 ACS
RN 273927-57-4 REGISTRY
CN Methanone, [3-[5-(chloromethyl)-4,5-dihydro-3-isoxazolyl]-2-methyl-4-(methylsulfonyl)phenyl][5-hydroxy-1-(1-methylethyl)-1H-pyrazol-4-yl]-
(9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H22 Cl N3 O5 S
SR CA
LC STN Files: CA, CAPLUS



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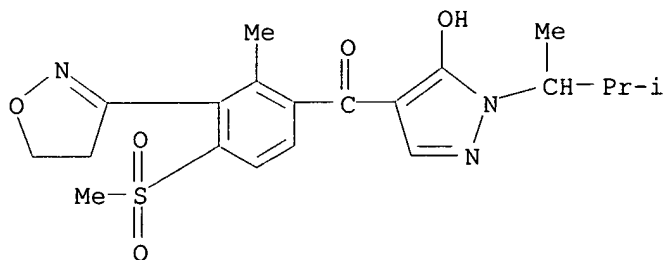
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1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:30727

L7 ANSWER 14 OF 22 REGISTRY COPYRIGHT 2002 ACS
RN 273927-54-1 REGISTRY
CN Methanone, [3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl][1-(1,2-dimethylpropyl)-5-hydroxy-1H-pyrazol-4-yl]-(9CI) (CA INDEX NAME)
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MF C20 H25 N3 O5 S
SR CA
LC STN Files: CA, CAPLUS

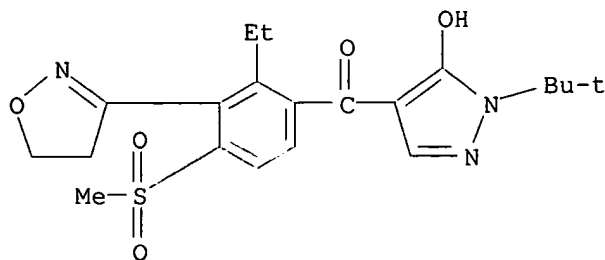


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REFERENCE 1: 133:30727

L7 ANSWER 15 OF 22 REGISTRY COPYRIGHT 2002 ACS
RN 273927-53-0 REGISTRY
CN Methanone, [3-(4,5-dihydro-3-isoxazolyl)-2-ethyl-4-(methylsulfonyl)phenyl][1-(1,1-dimethylethyl)-5-hydroxy-1H-pyrazol-4-yl]-(9CI) (CA INDEX NAME)
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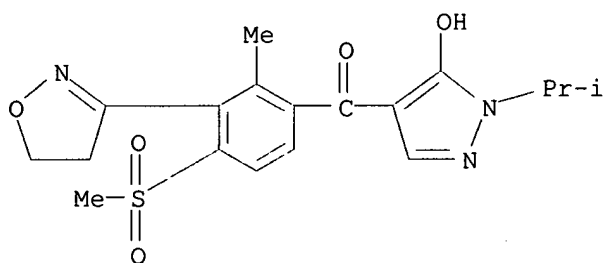


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REFERENCE 1: 133:30727

L7 ANSWER 16 OF 22 REGISTRY COPYRIGHT 2002 ACS
RN 273927-52-9 REGISTRY
CN Methanone, [3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl][5-hydroxy-1-(1-methylethyl)-1H-pyrazol-4-yl]-(9CI) (CA INDEX NAME)
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LC STN Files: CA, CAPLUS

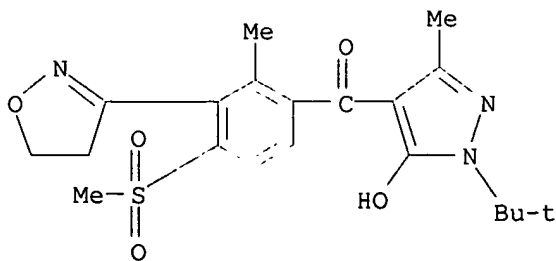


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REFERENCE 1: 133:30727

L7 ANSWER 17 OF 22 REGISTRY COPYRIGHT 2002 ACS
RN 273927-51-8 REGISTRY
CN Methanone, [3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl][1-(1,1-dimethylethyl)-5-hydroxy-3-methyl-1H-pyrazol-4-yl]-(9CI) (CA INDEX NAME)
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SR CA
LC STN Files: CA, CAPLUS

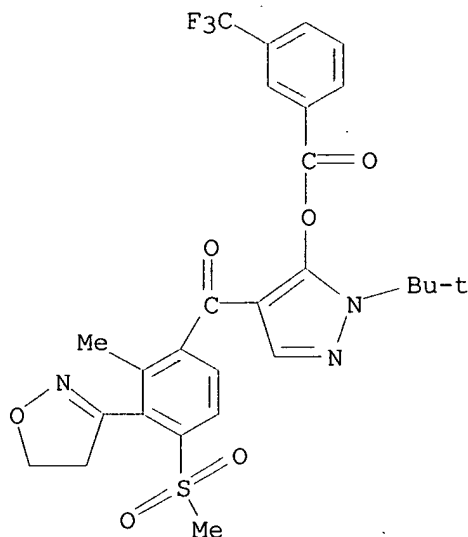


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REFERENCE 1: 133:30727

L7 ANSWER 18 OF 22 REGISTRY COPYRIGHT 2002 ACS
RN 273927-50-7 REGISTRY
CN Benzoic acid, 3-(trifluoromethyl)-, 4-[3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)benzoyl]-1-(1,1-dimethylethyl)-1H-pyrazol-5-yl ester (9CI) (CA INDEX NAME)
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SR CA
LC STN Files: CA, CAPLUS

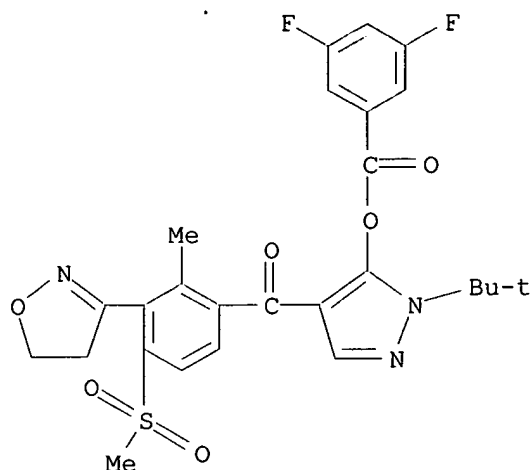


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REFERENCE 1: 133:30727

L7 ANSWER 19 OF 22 REGISTRY COPYRIGHT 2002 ACS
RN 273927-49-4 REGISTRY
CN Benzoic acid, 3,5-difluoro-, 4-[3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)benzoyl]-1-(1,1-dimethylethyl)-1H-pyrazol-5-yl ester (9CI) (CA INDEX NAME)
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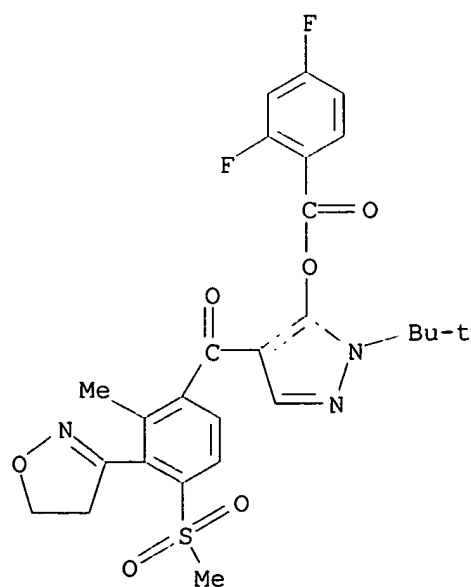


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REFERENCE 1: 133:30727

L7 ANSWER 20 OF 22 REGISTRY COPYRIGHT 2002 ACS
RN 273927-48-3 REGISTRY
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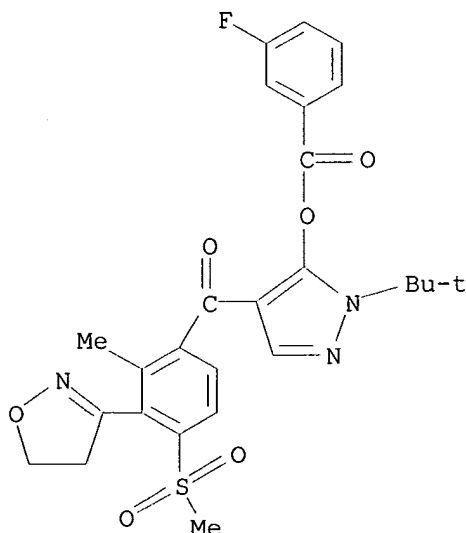


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REFERENCE 1: 133:30727

L7 ANSWER 21 OF 22 REGISTRY COPYRIGHT 2002 ACS
RN 273927-47-2 REGISTRY
CN Benzoic acid, 3-fluoro-, 4-[3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)benzoyl]-1-(1,1-dimethylethyl)-1H-pyrazol-5-yl ester (9CI)
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SR CA
LC STN Files: CA, CAPLUS

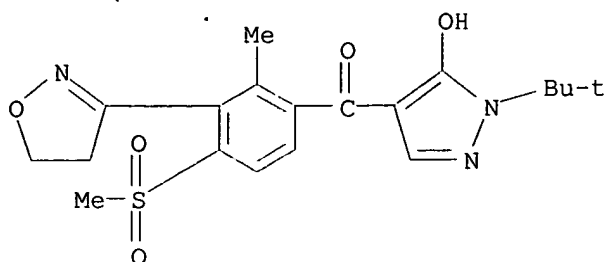


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1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:30727

L7 ANSWER 22 OF 22 REGISTRY COPYRIGHT 2002 ACS
RN 273927-46-1 REGISTRY
CN Methanone, [3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl][1-(1,1-dimethylethyl)-5-hydroxy-1H-pyrazol-4-yl]-
(9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H23 N3 O5 S
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:30727

=> fil hcaplus
FILE 'HCAPLUS' ENTERED AT 08:32:27 ON 11 SEP 2002
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FILE COVERS 1907 - 11 Sep 2002 VOL 137 ISS 11
FILE LAST UPDATED: 10 Sep 2002 (20020910/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

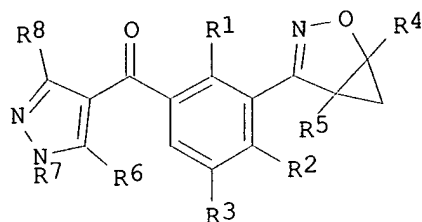
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L9 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2002 ACS
AN 2001:416933 HCAPLUS
DN 135:19635
TI Preparation of 4-[2-methyl-3-(2-oxa-3-azabicyclo[3.1.0]hex-3-en-4-yl)-4-methylsulfonylbenzoyl]-5-hydroxy-1H-pyrazoles as herbicides
IN Kudis, Steffen; Baumann, Ernst; Von Deyn, Wolfgang; Langemann, Klaus; Mayer, Guido; Misslitz, Ulf; Neidlein, Ulf; Witschel, Matthias; Westphalen, Karl-Otto; Walter, Helmut
PA BASF Aktiengesellschaft, Germany
SO PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001040221	A2	20010607	WO 2000-EP11823	20001127
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
PRAI	DE 1999-19958031	A	19991202		
OS	MARPAT 135:19635				
GI					



AB Title compds. [I; R1 = halo, NO₂, alkyl, haloalkyl, alkoxy, haloalkoxy; R2 = halo, cyano, NO₂, alkyl, haloalkyl, alkoxy, haloalkoxy, alkylthio, etc.; R3 = H, halo, alkyl; R4, R5 = H, alkyl, haloalkyl; R4R5 = (substituted) alkylene; R6 = OH, alkoxy, alkenyloxy, alkylsulfonyloxy, etc.; R7 = H, alkyl, cyclopropyl; R8 = H, alkyl, haloalkyl] and salts thereof, were prepd. as herbicides (no data). Thus, 4-[2-methyl-3-(5-chloromethyl-4,5-dihydroisoxazol-3-yl)-4-methylsulfonylbenzoyl]-5-hydroxy-1-tert-butyl-1H-pyrazole in Me₂SO was stirred at room temp. with Me₃COK overnight followed by treatment with 3% HCl to give 57 % 4-[2-methyl-3-(2-oxa-3-azabicyclo[3.1.0]hex-3-en-4-yl)-4-methylsulfonylbenzoyl]-5-hydroxy-1-tert-butyl-1H-pyrazole. Several I at 125 ppm or at 250 ppm postemergent were said to show very good control of *Amaranthus retroflexus*, *Avena fatua*, *Chenopodium album*, *Echinochloa crus galli*, *Polygonum persicaria*, and *Setaria faberi*.

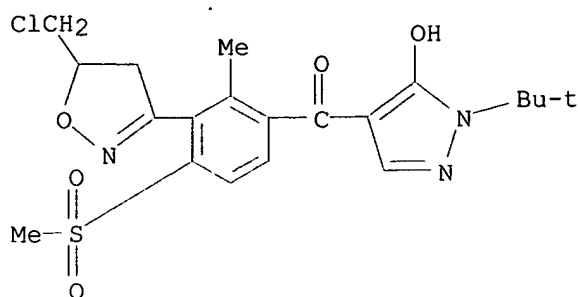
IT 273927-56-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of methyloxaazabicyclohexenylmethylsulfonylbenzoylhydroxypyrazoles as herbicides)

RN 273927-56-3 HCAPLUS

CN Methanone, [3-[5-(chloromethyl)-4,5-dihydro-3-isoxazolyl]-2-methyl-4-(methylsulfonyl)phenyl][1-(1,1-dimethylethyl)-5-hydroxy-1H-pyrazol-4-yl]-(9CI) (CA INDEX NAME)



L9 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2002 ACS

AN 2000:401821 HCAPLUS

DN 133:30727

TI Preparation of isoxazolybenzoylpyrazoles as herbicides.

IN Neidlein, Ulf; Gotz, Norbert; Baumann, Ernst; Von Deyn, Wolfgang; Kudis, Steffen; Langemann, Klaus; Mayer, Guido; Misslitz, Ulf; Witschel, Matthias; Otten, Martina; Westphalen, Karl-Otto; Walter, Helmut

PA Basf Aktiengesellschaft, Germany

SO PCT Int. Appl., 54 pp.

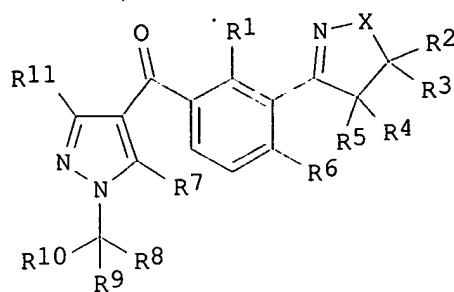
CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000034273	A2	20000615	WO 1999-EP9413	19991202
	WO 2000034273	A3	20001102		
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	BR 9915950	A	20010821	BR 1999-15950	19991202
	EP 1135388	A2	20010926	EP 1999-965430	19991202
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
PRAI	DE 1998-19855850	A	19981204		
	DE 1999-19936514	A	19990806		
	WO 1999-EP9413	W	19991202		
OS	MARPAT 133:30727				
GI					



I

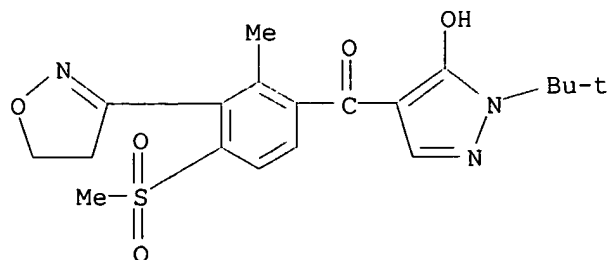
AB Title compds. [I; X = O, NH, alkylimino; R1 = alkyl; R2-R5 = H, alkyl, haloalkyl; R6 = halo, NO₂, haloalkyl, alkoxy, haloalkoxy, alkylthio, haloalkylthio, alkylsulfonyl, haloalkylsulfonyl; R7 = OH, alkoxy, alkenyloxy, alkylsulfonyloxy, alkylcarbonyloxy, alkylthiocarbonyloxy, (substituted) phenylsulfonyloxy, phenylcarbonyloxy; R8, R9 = alkyl; R10, R11 = H, alkyl], were prepd. Thus, 2-methyl-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulfonylbenzoic acid in dioxane was treated with 1-(1,1-dimethyl-1-ethyl)-5-hydroxy-1H-pyrazole and DCC followed by stirring for 12 h to give 4-[2-methyl-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulfonylbenzoyl]-5-hydroxy-1-(1,1-dimethyl-1-ethyl)-1H-pyrazole. Several I at 0.0625-0.5 kg/ha postemergent showed very good activity against *Echinochloa crus galli*, *Chenopodium album*, *Amaranthus retroflexus*, *Solanum nigrum*, etc.

IT 273927-46-1P 273927-47-2P 273927-48-3P
 273927-49-4P 273927-50-7P 273927-51-8P
 273927-52-9P 273927-53-0P 273927-54-1P
 273927-55-2P 273927-56-3P 273927-57-4P
 273927-58-5P 273927-59-6P 273927-60-9P
 273927-61-0P 273927-62-1P 273927-63-2P
 273927-64-3P 273927-65-4P 273927-66-5P
 273927-67-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of isoxazolylbenzoylpyrazoles as herbicides)

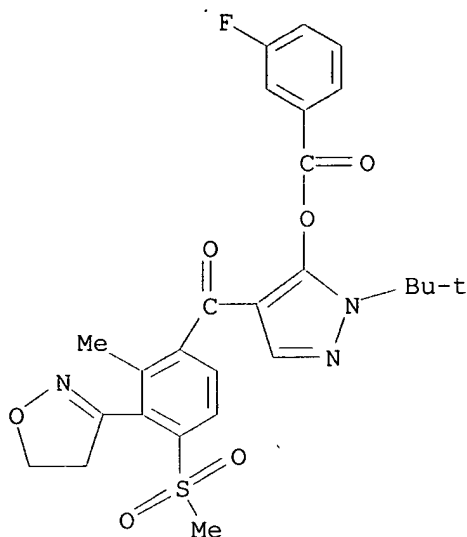
RN 273927-46-1 HCAPLUS

CN Methanone, [3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl][1-(1,1-dimethylethyl)-5-hydroxy-1H-pyrazol-4-yl]-
 (9CI) (CA INDEX NAME)



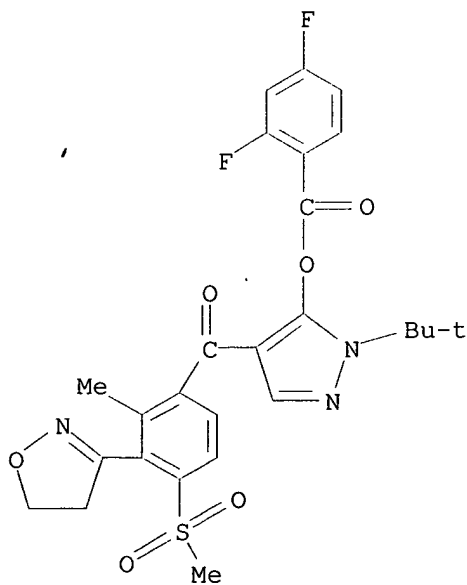
RN 273927-47-2 HCAPLUS

CN Benzoic acid, 3-fluoro-, 4-[3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)benzoyl]-1-(1,1-dimethylethyl)-1H-pyrazol-5-yl ester (9CI)
 (CA INDEX NAME)



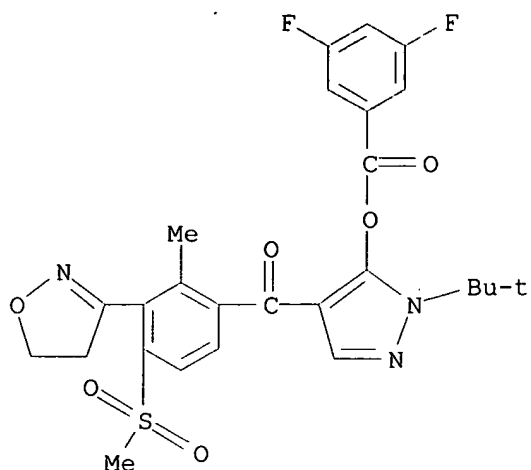
RN 273927-48-3 HCAPLUS

CN Benzoic acid, 2,4-difluoro-, 4-[3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)benzoyl]-1-(1,1-dimethylethyl)-1H-pyrazol-5-yl ester (9CI)
(CA INDEX NAME)



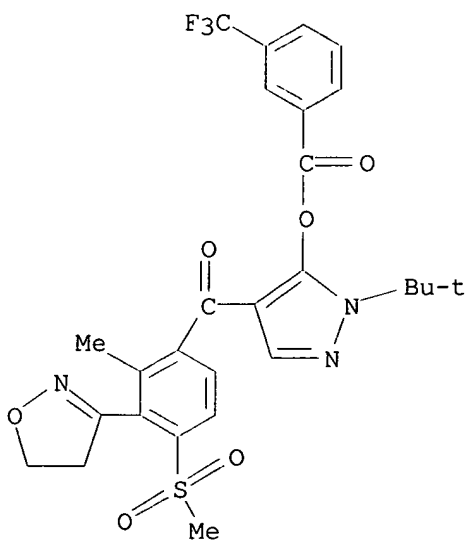
RN 273927-49-4 HCAPLUS

CN Benzoic acid, 3,5-difluoro-, 4-[3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)benzoyl]-1-(1,1-dimethylethyl)-1H-pyrazol-5-yl ester (9CI)
(CA INDEX NAME)



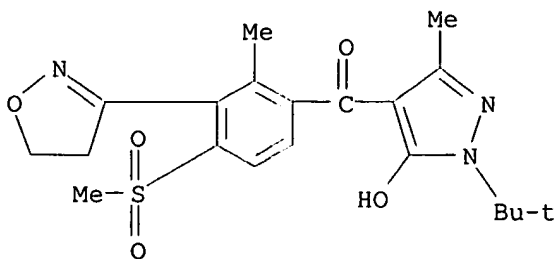
RN 273927-50-7 HCAPLUS

CN Benzoic acid, 3-(trifluoromethyl)-, 4-[3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)benzoyl]-1-(1,1-dimethylethyl)-1H-pyrazol-5-yl ester (9CI) (CA INDEX NAME)



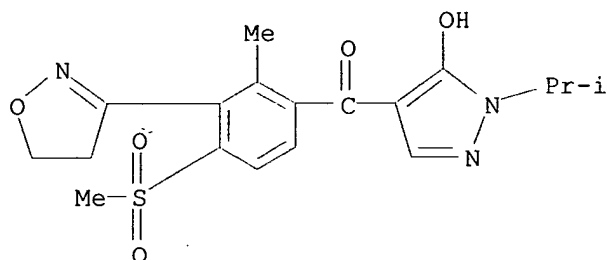
RN 273927-51-8 HCAPLUS

CN Methanone, [3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl][1-(1,1-dimethylethyl)-5-hydroxy-3-methyl-1H-pyrazol-4-yl]- (9CI) (CA INDEX NAME)



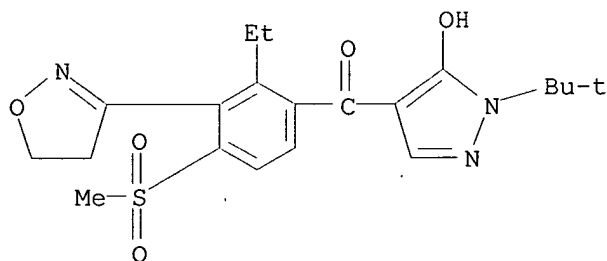
RN 273927-52-9 HCAPLUS

CN Methanone, [3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl][5-hydroxy-1-(1-methylethyl)-1H-pyrazol-4-yl]-(9CI) (CA INDEX NAME)



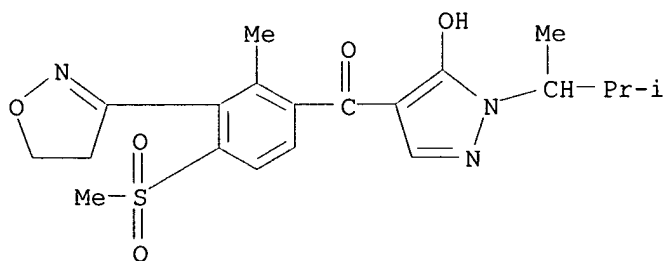
RN 273927-53-0 HCAPLUS

CN Methanone, [3-(4,5-dihydro-3-isoxazolyl)-2-ethyl-4-(methylsulfonyl)phenyl][1-(1,1-dimethylethyl)-5-hydroxy-1H-pyrazol-4-yl]-(9CI) (CA INDEX NAME)



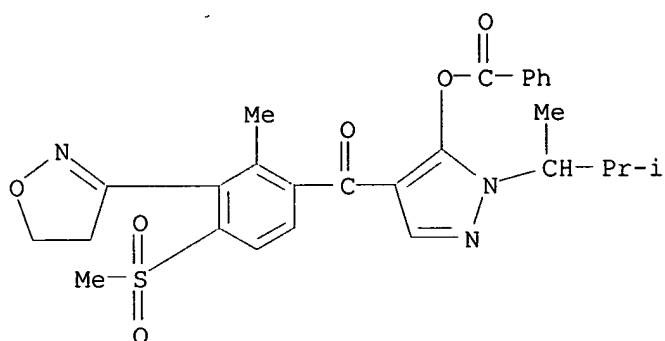
RN 273927-54-1 HCAPLUS

CN Methanone, [3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl][1-(1,2-dimethylpropyl)-5-hydroxy-1H-pyrazol-4-yl]-(9CI) (CA INDEX NAME)



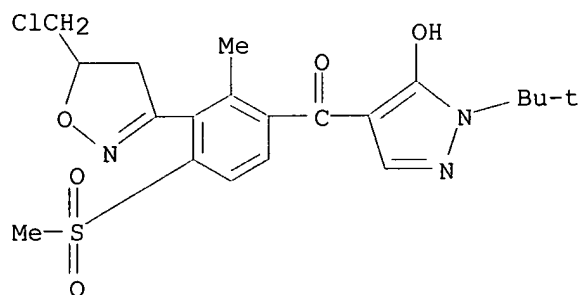
RN 273927-55-2 HCAPLUS

CN Methanone, [5-(benzoyloxy)-1-(1,2-dimethylpropyl)-1H-pyrazol-4-yl][3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl]-(9CI) (CA INDEX NAME)



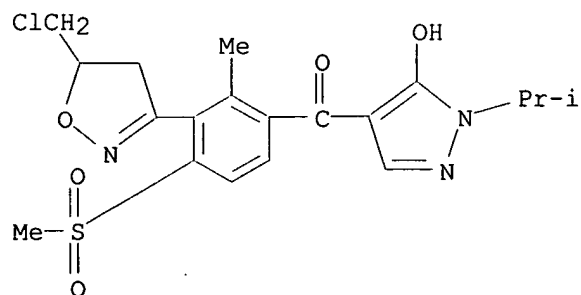
RN 273927-56-3 HCAPLUS

CN Methanone, [3-[5-(chloromethyl)-4,5-dihydro-3-isoxazolyl]-2-methyl-4-(methylsulfonyl)phenyl][1-(1,1-dimethylethyl)-5-hydroxy-1H-pyrazol-4-yl]-(9CI) (CA INDEX NAME)



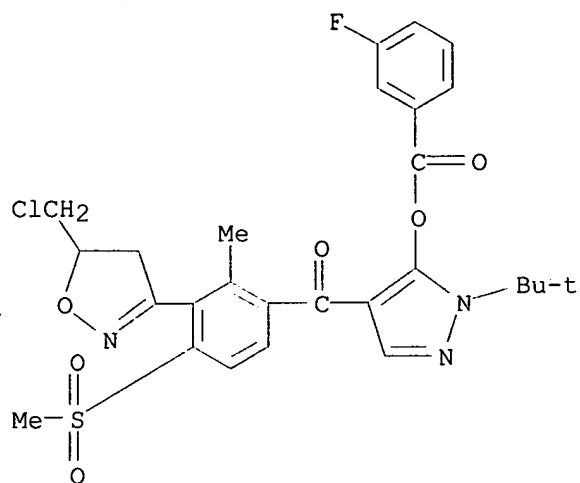
RN 273927-57-4 HCAPLUS

CN Methanone, [3-[5-(chloromethyl)-4,5-dihydro-3-isoxazolyl]-2-methyl-4-(methylsulfonyl)phenyl][5-hydroxy-1-(1-methylethyl)-1H-pyrazol-4-yl]-(9CI) (CA INDEX NAME)



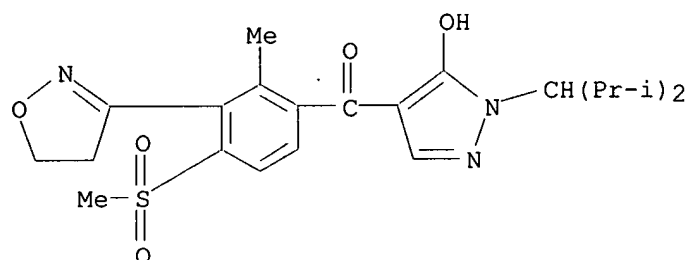
RN 273927-58-5 HCAPLUS

CN Benzoic acid, 3-fluoro-, 4-[3-[5-(chloromethyl)-4,5-dihydro-3-isoxazolyl]-2-methyl-4-(methylsulfonyl)benzoyl]-1-(1,1-dimethylethyl)-1H-pyrazol-5-yl ester (9CI) (CA INDEX NAME)



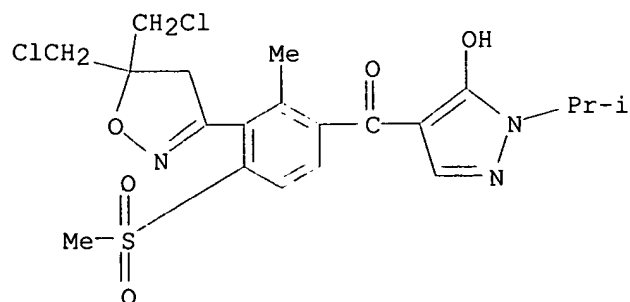
RN 273927-59-6 HCAPLUS

CN Methanone, [3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl][5-hydroxy-1-[2-methyl-1-(1-methylethyl)propyl]-1H-pyrazol-4-yl]- (9CI) (CA INDEX NAME)



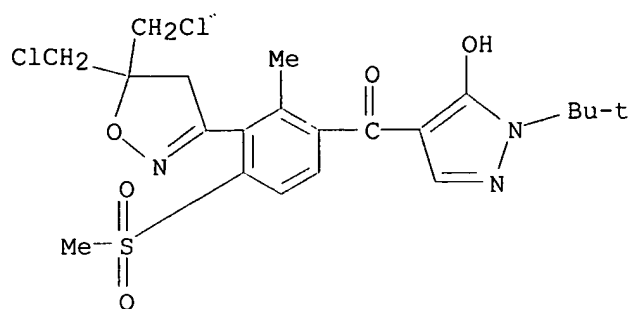
RN 273927-60-9 HCAPLUS

CN Methanone, [3-[5,5-bis(chloromethyl)-4,5-dihydro-3-isoxazolyl]-2-methyl-4-(methylsulfonyl)phenyl][5-hydroxy-1-(1-methylethyl)-1H-pyrazol-4-yl]- (9CI) (CA INDEX NAME)



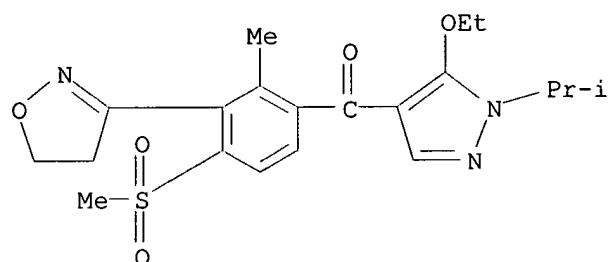
RN 273927-61-0 HCAPLUS

CN Methanone, [3-[5,5-bis(chloromethyl)-4,5-dihydro-3-isoxazolyl]-2-methyl-4-(methylsulfonyl)phenyl][1-(1,1-dimethylethyl)-5-hydroxy-1H-pyrazol-4-yl]- (9CI) (CA INDEX NAME)



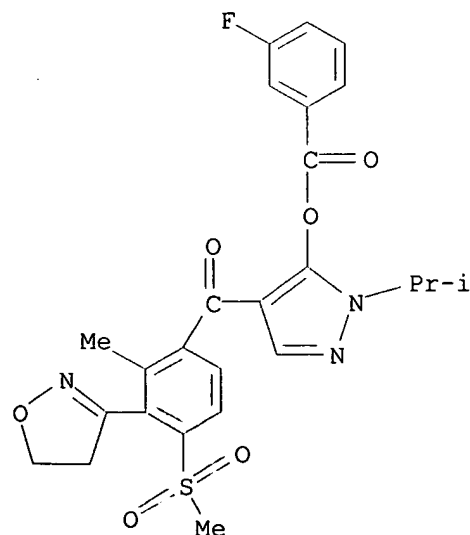
RN 273927-62-1 HCAPLUS

CN Methanone, [3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl][5-ethoxy-1-(1-methylethyl)-1H-pyrazol-4-yl]- (9CI)
(CA INDEX NAME)



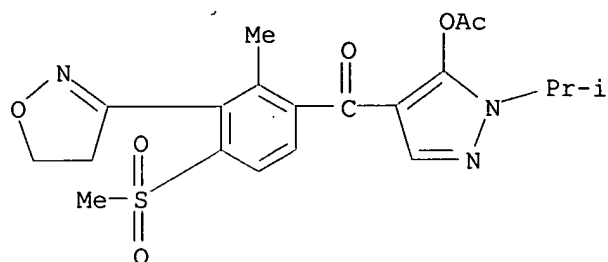
RN 273927-63-2 HCAPLUS

CN Benzoic acid, 3-fluoro-, 4-[3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)benzoyl]-1-(1-methylethyl)-1H-pyrazol-5-yl ester (9CI)
(CA INDEX NAME)



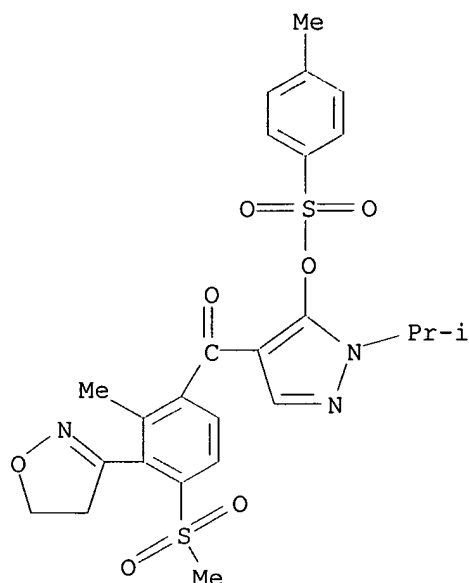
RN 273927-64-3 HCAPLUS

CN Methanone, [5-(acetyloxy)-1-(1-methylethyl)-1H-pyrazol-4-yl][3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



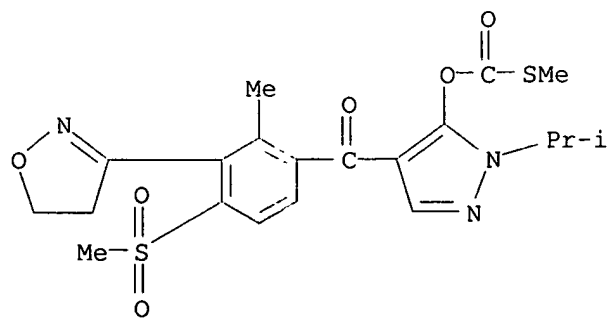
RN 273927-65-4 HCAPLUS

CN Methanone, [3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl][1-(1-methylethyl)-5-[[4-methylphenyl)sulfonyl]oxy]-1H-pyrazol-4-yl]- (9CI) (CA INDEX NAME)



RN 273927-66-5 HCAPLUS

CN Carbonothioic acid, O-[4-[3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)benzoyl]-1-(1-methylethyl)-1H-pyrazol-5-yl] S-methyl ester (9CI) (CA INDEX NAME)



RN 273927-67-6 HCAPLUS

CN Methanone, [5-(benzoyloxy)-1-(1,1-dimethylethyl)-1H-pyrazol-4-yl][3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)

NAME)

